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<110> Lyamichev, Victor   Allawi, Hatim   Dong, Fang   Neri, Bruce
Vener, Tatiana

<120>   Nucleic Acid Accessible Hybridization Sites

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<140>   Not yet assigned

<141>   2001-06-15

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cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcggtctc   118

<210> 87 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 87
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<210> 88 <211> 114 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 88
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa   60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcgg   114

<210> 89 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 89
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<210> 90 <211> 114 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 90
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa   60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcgc   114

<210> 91 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 91
cggccgggcc ccagcgccga   20

<210> 92 <211> 114 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 92
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa   60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gccg   114

<210> 93 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 93
cgggccccag cgccgaca   18

<210> 94 <211> 110 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 94
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa   60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg   110

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<400> 95
agggccccag cgccgaca   18

<210> 96 <211> 110 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 96
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa   60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggccct   110

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<400> 97
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<210> 98 <211> 106 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 98
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa   60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctgggg   106

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<400> 99
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<210> 100 <211> 106 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 100
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa   60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggga   106

<210> 101 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 101
cgcttgtggg tcaaccccga   20

<210> 102 <211> 87 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 102
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa   60

cccgctgtcg gggttgaccc acaagcg   87

<210> 103 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 103
agcttgtggg tcaaccccga   20

<210> 104 <211> 87 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 104
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa   60

cccgctgtcg gggttgaccc acaagct   87

<210> 105 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic

241

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<210>  106 <211>  18 <212>  DNA <213>  Artificial  <220> <223>  Synthetic

<400>  106
gtgacagatt gttgttct                                                  18


<210>  107 <211>  18 <212>  DNA <213>  Artificial  <220> <223>  Synthetic

<400>  107
gtgacagagc gttgttct                                                  18


<210>  108 <211>  18 <212>  DNA <213>  Artificial  <220> <223>  Synthetic

<400>  108
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<210>  109 <211>  18 <212>  DNA <213>  Artificial  <220> <223>  Synthetic

<220> <221>  misc_feature <222>  (9)..(10) <223> The residues at these
positions are spacers with abasic sugar lab
        els.

 <400>  109
gtgacagann gttgttct                                                  18


<210>  110 <211>  18 <212>  DNA <213>  Artificial  <220> <223>  Synthetic

<400>  110
tcacgtgagc gtccatga                                                  18


<210>  111 <211>  18 <212>  DNA <213>  Artificial  <220> <223>  Synthetic

<400>  111
cagaccgcgc acagcggg                                                  18


<210>  112 <211>  17 <212>  DNA <213>  Artificial  <220> <223>  Synthetic

<400>  112
gctcacgata ccccgac                                                   17


<210>  113 <211>  18 <212>  DNA <213>  Artificial  <220> <223>  Synthetic

<400>  113
tgctcacgat accccgac                                                  18


<210>  114 <211>  18 <212>  DNA <213>  Artificial  <220> <223>  Synthetic
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<400> 114
cgccgggcgc tcaacccc   18

<210> 115 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 115
acagtcgggc ggttgttc   18

<210> 116 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 116
cgggccccta tgtgggtc   18

<210> 117 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 117
ctcacgtgta tctggtcc   18

<210> 118 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 118
tgacagacgt tgttct   16

<210> 119 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 119
ccccagcggc gttgttct   18

<210> 120 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 120
gtgtcgtttg gaaccg   16

<210> 121 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 121
tgggcgttgc ttgtgg   16

<210> 122 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 122
ttgggcgttg cttgtggt   18

<210> 123 <211> 13 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 123
tccttgatcg cgg   13

243

<210> 124 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 124
cttaaggtag gactac   16

<210> 125 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 125
cattttccaa ccttaa   16

<210> 126 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 126
taaggtagga ctac   14

<210> 127 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(16) <223> The residue at this
position can be any nucleotide.

<400> 127
taaggtagga ctacnn   16

<210> 128 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(18) <223> The residue at this
position can be any nucleotide.

<400> 128
taaggtagga ctacnnnn   18

<210> 129 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(20) <223> The residue at this
position can be any nucleotide.

<400> 129
taaggtagga ctacnnnnnn   20

<210> 130 <211> 22 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(22) <223> The residue at this
position can be any nucleotide.

<400> 130
taaggtagga ctacnnnnnn nn   22

<210> 131 <211> 24 <212> DNA <213> Artificial <220> <223> Synthetic

244

<220> <221> misc_feature <222> (15)..(24) <223> The residue at this
position can be any nucleotide.

<400> 131
taaggtagga ctacnnnnnn nnnn   24

<210> 132 <211> 26 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(26) <223> The residue at this
position can be any nucleotide.

<400> 132
taaggtagga ctacnnnnnn nnnnnn   26

<210> 133 <211> 30 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(30) <223> The residue at this
position can be any nucleotide.

<400> 133
taaggtagga ctacnnnnnn nnnnnnnnnn   30

<210> 134 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 134
ttttccaacc ttaa   14

<210> 135 <211> 22 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(22) <223> The residue at this
position can be any nucleotide.

<400> 135
ttttccaacc ttaannnnnn nn   22

<210> 136 <211> 26 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(26) <223> The residue at this
position can be any nucleotide.

<400> 136
ttttccaacc ttaannnnnn nnnnnn   26

<210> 137 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (1)..(14) <223> The residues in these
positions are 2'-O-methyl nucleotides.

<400> 137
gtagtcctac ctta   14

245

<210> 138 <211> 14 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (1)..(14) <223> The residues in these positions are 2'-O-methyl nucleotides.

<400> 138
ttaaggttgg aaaa   14

<210> 139 <211> 24 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (15)..(24) <223> The residue at this position can be any nucleotide.

<400> 139
ttttccaacc ttaannnnnn nnnn   24

<210> 140 <211> 21 <212> DNA <213> Artificial <220> <223> Synthetic

<220> <221> misc_feature <222> (1)..(1) <223> The residue at this 5' end has a tetrachlorofluorescein label.

<400> 140
ngcatcgttt tgggttctct t   21

<210> 141 <211> 987 <212> RNA <213> Artificial <220> <223> Synthetic

<400> 141
cacauuguuc ugaucaucug aagaucagcu auuagaagag aaagaucagu uaaguccuuu   60

ggaccugauc agcuugauac aagaacuacu gauuucaacu ucuuuggcuu aauucucucg   120

gaaacgauga aauauacaag uuauaucuug gcuuuucagc ucugcaucgu uuuggguucu   180

cuuggcuguu acugccagga cccauaugua caagaagcag aaaaccuuaa gaaauauuuu   240

aaugcagguc auucagaugu agcggauaau ggaacucuuu ucuuaggcau uuugaagaau   300

uggaaagagg agagugacag aaaaauaaug cagagccaaa uugucuccuu uuacuucaaa   360

cuuuuuaaaa acuuuaaaga ugaccagagc auccaaaaga guguggagac caucaaggaa   420

gacaugaaug ucaaguuuuu caauagcaac aaaaagaaac gagaugacuu cgaaaagcug   480

acuaauuauu cgguaacuga cuugaauguc caacgcaaag caauacauga acucauccaa   540

gugauggcug aacugucgcc agcagcuaaa acagggaagc gaaaaaggag ucagaugcug   600

uuucgagguc gaagagcauc ccaguaaugg uuguccugcc uacaauauuu gaauuuuaaa   660

ucuaaaucua uuuauuaaua uuuaacauua uuuauauggg gaauauauuu uuagacucau   720

caaucaaaua aguauuuaua auagcaacuu uuguguaaug aaaaugaaua ucuauuaaua   780

uauguauuau uuauaauuccc uauauccugu gacugucuca cuuaauccuu uguuuucuga   840

cuaauuaggc aaggcuaugu gauuacaagg cuuuaucuca ggggccaacu aggcagccaa   900

ccuaagcaag aucccaugggg uugugugguu auuucacuug augauacaau gaacacuuau   960

aagugaagug auacuauccca guuacua   987

<210> 142 <211> 47 <212> RNA <213> Artificial <220> <223> Synthetic

<400> 142
ggugguggug ggcgccgucg guguggggcaa gagugcgcug accaucc   47

<210> 143 <211> 589 <212> RNA <213> Oryctolagus cuniculus

<400> 143
acacuugcuu uugacacaac uguguuuacu ugcaaucccc caaaacagac agaauggugc   60

aucuguccag ugaggagaag ucugcgguca cugcccugug gggcaaggug aauguggaag   120

aaguuggugg ugaggcccug ggcaggcugc ugguugucua cccauggacc cagagguucu   180

ucgaguccuu ugggggaccug uccucugcaa augcuguuau gaacaauccu aaggugaagg   240

cucauggcaa gaaggugcug gcugccuuca gugagggucu gagucaccug gacaaccuca   300

aaggcaccuu ugcuaagcug agugaacugc acugugacaa gcugcacgug gauccugaga   360

acuucaggcu ccugggcaac gugcugguua uugugcuguc ucaucauuuu ggcaaagaau   420

ucacuccuca ggugcaggcu gccaucaga aggugguggc ugguguggcc aaugcccugg   480

cucacaaaua ccacugagau cuuuuucccu cugccaaaaa uuauggggac aucaugaagc   540

cccuugagca ucugacuucu ggcuaauaaa ggaaauuuau uuucauugc   589

<210> 144 <211> 2891 <212> DNA <213> Homo sapiens

<400> 144
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gctcccagca gcccccggcc cgcgctgccc gcactcctgg tcctgctcgg ggctctgttc   120

ccaggacctg gcaatgccca gacatctgtg tccccctcaa aagtcatcct gccccggggga   180

ggctccgtgc tggtgacatg cagcacctcc tgtgaccagc ccaagttgtt gggcatagag   240

accccgttgc ctaaaaagga gttgctcctg cctgggaaca accggaaggt gtatgaactg   300

agcaatgtgc aagaagatag ccaaccaatg tgctattcaa actgccctga tgggcagtca   360

acagctaaaa ccttcctcac cgtgtactgg actccagaac gggtggaact ggcacccctc   420

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ccctcttggc agccagtggg caagaacctt accctacgct gccaggtgga gggtggggca      480

ccccgggcca acctcaccgt ggtgctgctc cgtggggaga aggagctgaa acgggagcca      540

gctgtggggg agcccgctga ggtcacgacc acggtgctgg tgaggagaga tcaccatgga      600

gccaatttct cgtgccgcac tgaactggac ctgcggcccc aagggctgga gctgtttgag      660

aacacctcgg ccccctacca gctccagacc tttgtcctgc cagcgactcc cccacaactt      720

gtcagccccc gggtcctaga ggtggacacg caggggaccg tggtctgttc cctggacggg      780

ctgttcccag tctcggaggc ccaggtccac ctggcactgg gggaccagag gttgaacccc      840

acagtcacct atggcaacga ctccttctcg gccaaggcct cagtcagtgt gaccgcagag      900

gacgagggca cccagcggct gacgtgtgca gtaatactgg ggaaccagag ccaggagaca      960

ctgcagacag tgaccatcta cagctttccg gcgcccaacg tgattctgac gaagccagag     1020

gtctcagaag ggaccgaggt gacagtgaag tgtgaggccc accctagagc caaggtgacg     1080

ctgaatgggg ttccagccca gccactgggc ccgagggccc agctcctgct gaaggccacc     1140

ccagaggaca acgggcgcag cttctcctgc tctgcaaccc tggaggtggc cggccagctt     1200

atacacaaga accagacccg ggagcttcgt gtcctgtatg ccccccgact ggacgagagg     1260

gattgtccgg gaaactggac gtggccagaa aattcccagc agactccaat gtgccaggct     1320

tgggggaacc cattgcccga gctcaagtgt ctaaaggatg gcactttccc actgcccatc     1380

ggggaatcag tgactgtcac tcgagatctt gagggcacct acctctgtcg ggccaggagc     1440

actcaagggg aggtcacccg cgaggtgacc gtgaatgtgc tctccccccg gtatgagatt     1500

gtcatcatca ctgtggtagc agccgcagtc ataatgggca ctgcaggcct cagcacgtac     1560

ctctataacc gccagcggaa gatcaagaaa tacagactac aacaggccca aaaagggacc     1620

cccatgaaac cgaacacaca agccacgcct ccctgaacct atcccgggac agggcctctt     1680

cctcggcctt cccatattgg tggcagtggt gccacactga acagagtgga agacatatgc     1740

catgcagcta cacctaccgg ccctgggacg ccggaggaca gggcattgtc ctcagtcaga     1800

tacaacagca tttggggcca tggtacctgc acacctaaaa cactaggcca cgcatctgat     1860

ctgtagtcac atgactaagc caagaggaag gagcaagact caagacatga ttgatggatg     1920

ttaaagtcta gcctgatgag aggggaagtg gtgggggaga catagcccca ccatgaggac     1980

atacaactgg gaaatactga aacttgctgc ctattgggta tgctgaggcc cacagactta     2040

cagaagaagt ggccctccat agacatgtgt agcatcaaaa cacaaaggcc cacacttcct     2100

gacggatgcc agcttgggca ctgctgtcta ctgaccccaa cccttgatga tatgtattta     2160
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248

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ttcatttgtt attttaccag ctatttattg agtgtctttt atgtaggcta aatgaacata    2220

ggtctctggc ctcacggagc tcccagtcca tgtcacattc aaggtcacca ggtacagttg    2280

tacaggttgt acactgcagg agagtgcctg gcaaaaagat caaatggggc tgggacttct    2340

cattggccaa cctgcctttc cccagaagga gtgattttc tatcggcaca aaagcactat     2400

atggactggt aatggttcac aggttcagag attacccagt gaggccttat tcctcccttc    2460

cccccaaaac tgacaccttt gttagccacc tccccaccca catacatttc tgccagtgtt    2520

cacaatgaca ctcagcggtc atgtctggac atgagtgccc agggaatatg cccaagctat    2580

gccttgtcct cttgtcctgt ttgcatttca ctgggagctt gcactattgc agctccagtt    2640

tcctgcagtg atcagggtcc tgcaagcagt ggggaagggg gccaaggtat tggaggactc    2700

cctcccagct ttggaagggt catccgcgtg tgtgtgtgtg tgtatgtgta gacaagctct    2760

cgctctgtca cccaggctgg agtgcagtgg tgcaatcatg gttcactgca gtcttgacct    2820

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acaccacacc t                                                         2891


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<210> 146 <211> 18 <212> DNA <213> Artificial <220> <223> Synthetic

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<210> 147 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic

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tgcccatcag ggcagtttga                                                         20


<210> 149 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic

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249

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<210> 151 <211> 33 <212> DNA <213> Artificial <220> <223> Synthetic

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<400> 152
ccccctttg gggg   14

<210> 153 <211> 30 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 153
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<210> 154 <211> 74 <212> DNA <213> Artificial <220> <223> Synthetic

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tttaaaaagt ttga   74

<210> 155 <211> 15 <212> DNA <213> Artificial <220> <223> Synthetic

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<210> 156 <211> 16 <212> DNA <213> Artificial <220> <223> Synthetic

<400> 156
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<210> 157 <211> 20 <212> DNA <213> Artificial <220> <223> Synthetic

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aggcgcacca atttggtgtt   20

<210> 158 <211> 1621 <212> RNA <213> Human immunodeficiency virus

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ggucucucug guuagaccag aucugagccu gggagcucuc uggcuaacua gggaacccac   60

ugcuuaagcc ucaauaaagc uugccuugag ugcuucaagu agugugugcc cgucuguugu   120

250

gugacucugg uaacuagaga ucccucagac ccuuuuaguc aguguggaaa aucucuagca   180

guggcgcccg aacagggacc ugaaagcgaa agggaaacca gaggagcucu cucgacgcag   240

gacucggcuu gcugaagcgc gcacggcaag aggcgagggg cggcgacugg ugaguacgcc   300

aaaaauuuug acuagcggag gcuagaagga gagagauggg ugcgagagcg ucaguauuaa   360

gcgggggaga auuagaucga ugggaaaaaa uucgguuaag gccaggggga aagaaaaaau   420

auaaauuaaa acauauagua ugggcaagca gggagcuaga acgauucgca guuaauccug   480

gccuguuaga aacaucagaa ggcuguagac aaauacuggg acagcuacaa ccaucccuuc   540

agacaggauc agaagaacuu agaucauuau auaauacagu agcaacccuc uauugugugc   600

aucaaaggau agagauaaaa gacaccaagg aagcuuuaga caagauagag gaagagcaaa   660

acaaaaguaa gaaaaaagca cagcaagcag cagcugacac aggacacagc aaucagguca   720

gccaaaauua cccuauagug cagaacaucc aggggcaaau gguacaucag gccauaucac   780

cuagaacuuu aaaugcaugg guaaaaguag uagaagagaa ggcuuucagc ccagaaguga   840

uacccauguu uucagcauua ucagaaggag ccaccccaca agauuuaaac accaugcuaa   900

acacaguggg gggacaucaa gcagccaugc aaauguuaaa agagaccauc aaugaggaag   960

cugcagaaug ggauagagug cauccagugc augcagggcc uauugcacca ggccagauga   1020

gagaaccaag gggaagugac auagcaggaa cuacuaguac ccuucaggaa caaauaggau   1080

ggaugacaaa uaauccaccu aucccaguag gagaaauuua uaaaagaugg auaauccugg   1140

gauuaaauaa aauaguaaga auguauagcc cuaccagcau ucuggacaua agacaaggac   1200

caaaggaacc cuuuagagac uauguagacc gguucuauaa aacucuaaga gccgagcaag   1260

cuucacagga gguaaaaaau uggaugacag aaaccuuguu gguccaaaau gcgaacccag   1320

auuguaagac uauuuuaaaa gcauugggac cagcggcuac acuagaagaa augaugacag   1380

caugucaggg aguaggagga cccggccaua aggcaagagu uuuggcugaa gcaaugagcc   1440

aaguaacaaa uucagcuacc auaaugaugc agagaggcaa uuuuaggaac caaagaaaga   1500

uuguuaagug uuucaauugu ggcaaagaag ggcacacagc cagaaauugc agggccccua   1560

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aaagaaccag uacauggagu guauuaugac ccaucaaaag acuuaauagc agaaauacag     240

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gaaaugcaug gaucucaaag gaaacaaaca cccaauaaac ucggaguggc agacugacaa   180

cugugagaca ugcacuugcu acgaaacaga aauuucaugu ugcacccuug uuucuacacc   240

uguggguuau gacaaagaca acugccaaag aaucuucaag aaggaggacu gcaaguauau   300

cgugguggag aagaaggacc caaaaaagac cuguucuguc agugaaugga uaaucuaaug   360

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cuccugacag cagagacuga ucuuugcugg caagcagcug gaagauggac guacuuuguc   180

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uaagaaaagg aagaagaagu cuuacaccac ucccaagaag aauaagcaca agagaaagaa   300

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cauagugguc ugcggaaccg gugaguacac cggaauugcc aggacgaccg gguccuuucu      180
uggauaaacc cgcucaaugc cuggagauuu gggcgugccc ccgcaagacu gcuagccgag      240
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cauagugguc ugcggaaccg gugaguacac cggaauugcc aggacgaccg gguccuuucu      180
uggaucaacc cgcucaaugc cuggagauuu gggcgugccc ccgcgagacu gcuagccgag      240
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cauagugguc ugcggaaccg gugaguacac cggaauugcc gggaagacug gguccuuucu      180
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cauagugguc ugcggaaccg gugaguacac cggaaucgcu ggggugaccg gguccuuucu   180

uggaacaacc cgcucaauac ccagaaauuu gggcgugccc ccgcgagauc acuagccgag   240

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ccggaacugu gggcucaucg cuggggcugu cauuggugcu guccuggcug uguuuggagg   180

uauucuaaug ccaguuggag accugcuuau ccagaagaca auuaaaaagc aaguuguccu   240

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guuuuggauc uuugaugugc aaaauccaca ggaagugaug augaacagca gcaacauuca   360

264

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uucacuauca guuggaacag aggcugacaa cuucacaguu cucaaucugg cuguggcagc   540

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uccauuuuug aguuugguuc cguacccugu uacuacuaca guuggucugu uuuauccuua   720

caacaauacu gcagauggag uuuauaaagu uuucaaugga aaagauaaca uaaguaaagu   780

ugccauaauc gacacauaua aagguaaaag gaaucugucc uauugggaaa gucacugcga   840

caugauuaau gguacagaug cagccucauu uccaccuuuu guugagaaaa gccagguauu   900

gcaguucuuu ucuucugaua uuugcagguc aaucuaugcu guauuugaau ccgacguuaa   960

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aaaaauaaau acaacacacc caaauacagg augauaguuc gugugacaaa cagagauauc   180

auuugucaga uugcuuaugc ccguauagag ggggauauga uagucugcgc acguuaugca   240

cacgaacugc caaaauaugg ugugaagguu ggccugacaa auuaugcugc agcauauugu   300

acuggccugc ugcuggcccg caggcuucuc aauagguuug gcauggacaa gaucuaugaa   360

ggccaagugg aggugacugg ugaugaauac aauguggaaa gcauugaugg ucagccaggu   420

gccuucaccu gcuauuugga ugcaggccuu gccagaacua ccacuggcaa uaaaguuuuu   480

ggugcccuga agggagcugu ggauggaggc uugucuaucc cucacaguac caaacgauuc   540

ccugguuaug auucugaaag caaggaauuu aaugcagaag uacaucggaa gcacaucaug   600

ggccagaaug uugcagauua caugcgcuac uuaauggaag aagaugaaga ugcuuacaag   660

aaacaguucu cucaauacau aaagaacagc guaacuccag acaugaugga ggagauguau   720

aagaaagcuc augcugcuau acgagagaau ccagucuaug aaaagaagcc caagaaagaa   780

guuaaaaaga agagguggaa ccgucccaaa augucccuug cucagaagaa ggaucgggua   840

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ggucaacauc accuucaaug acaacgacac cguguccuuc guggagaacc gcagccucca   240

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ugucuucacg ggcguccaga auuucagcag gauccaucug guggacaaau ggaacggacu   600

268

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cuucacggcc cccgauacuc uguuugccaa cggguccguc uacccaccca acgaaggcuu   840

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gggcacggug cugcaagaag ccaagcuaua ggguccugaa gacacuauaa gcccccccaaa   1440

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uggcgucgcc ccaguucaug uucacaaaga gaaaggacaa cgaauguuug ggugauuacc   360

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cgacucuacu aagaacccag aguuccugca ucugacucug uguaaugaaa acagauucac   960

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273

uucaaagggg gcaagaagua gcagugucug uaaaagagcc uaguuuuuaa uagcuaugga   1260

aucaauucaa uuuggacugg ugugcucucu uuaaaucaag uccuuuaauu aagacugaaa   1320

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agcuguggcc gaguuaauag cccuggguau aguaacaaug uugaauauga aucuuuugcg   180

agaugaaaug ggugauccgc agccaagucc uaagggcauu uuugucuaug gaugcaguuc   240

aacgacuaga uggcaguggg uauuguaagg aauugcaguu uucuugcagu gcuuaaggua   300

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275

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aggccucgaa gcaguguuca ccuugggagu gcgcaagcac aaagaggguga gugguguaug   180

ggguuaaucc cguggcgagc cgucagggcg cgaguucugg caguggccgu cguagagcac   240

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ggagcaau   368

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ugauccaauu ucgccggcgu acggccacga ucgggaggggu gggaaucucg ggggucuucc   180

gauccuaauc caugaugauu acgaccugag ucacuaaaga cgauggcaug augauccggc   240

gaug   244